



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, May 22, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for COKELEY UNIT 1H
47-085-10511-00-00

Sidetrack

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: COKELEY UNIT 1H
Farm Name: MICHAEL UNDERWOOD ET AL
U.S. WELL NUMBER: 47-085-10511-00-00
Horizontal 6A New Drill
Date Modification Issued: 5/22/2024

Promoting a healthy environment.

05/24/2024

CK # 4031789
\$ 7,500.00
5/14/24

Expedite Mod

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Antero Resources Corporation 494507062 085 - Ritchie Clay Ellenboro 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Cokeley Unit 1H MOD Well Pad Name: Pinewood Pad

3) Farm Name/Surface Owner: Michael Underwood Et Al Public Road Access: Pinewood Lane

4) Elevation, current ground: 1066' - AS BUILT Elevation, proposed post-construction: _____

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 6700' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24700' MD

11) Proposed Horizontal Leg Length: 15299' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 200', 378', 878'

13) Method to Determine Fresh Water Depths: 47085088860000, 47085077500000 Offset well records Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1490'

15) Approximate Coal Seam Depths: N/A

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

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Jeremy Newlon Jeremy Newlon 5-21-2024

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	928'	928'	CTS, 967 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3000'	3000'	CTS, 1221 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	24700'	24700'	CTS, 5296 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.375"	2250	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

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Jeremy Newlon

Jeremy Newlon 5-21-2024

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill a new horizontal shallow well into the Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs

Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 19.86 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.21 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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24) Describe all cement additives associated with each cement type:

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Conductor: no additives, Class A/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

Production: Tail cement- Class G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

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25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

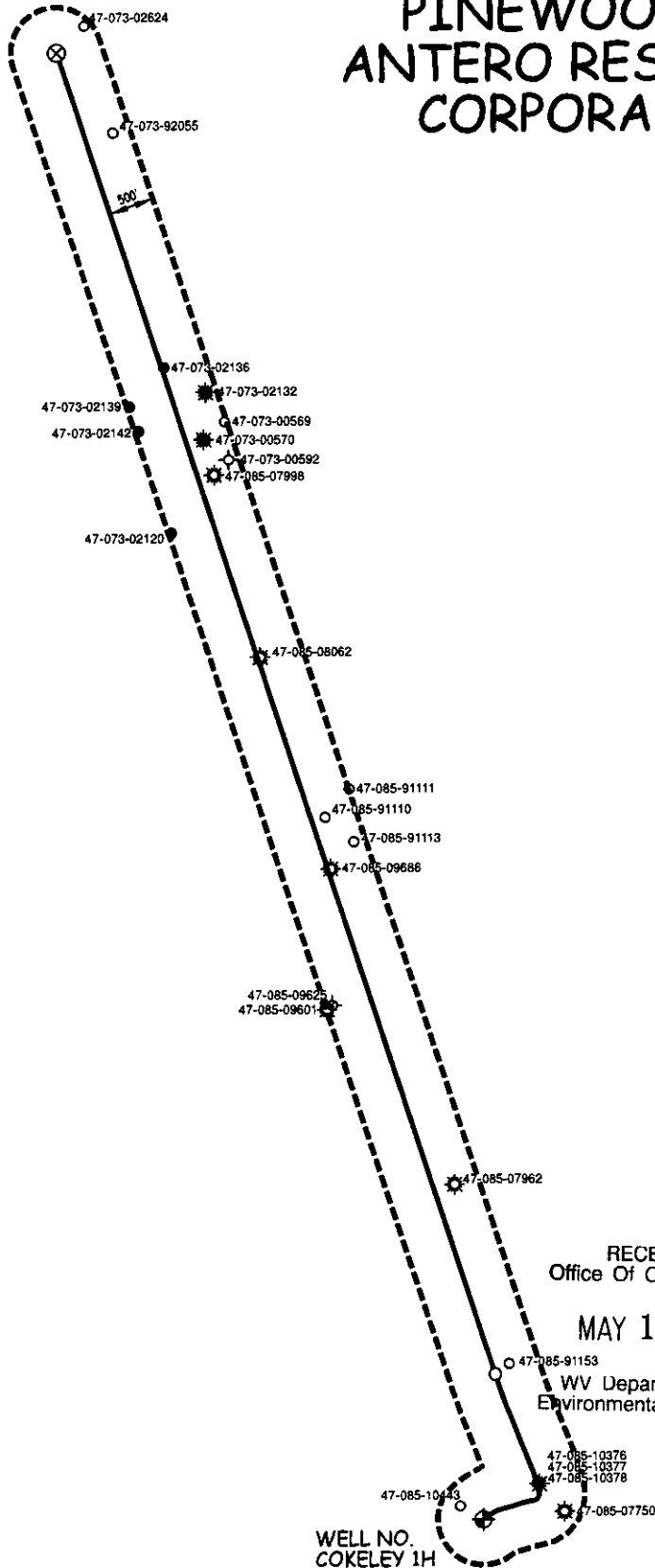
*Note: Attach additional sheets as needed.

Jeremy Newlon

Jeremy Newlon 5-21-2024

05/24/2024
Page 3 of 3

PINEWOOD PAD ANTERO RESOURCES CORPORATION



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WELL NO.
COKELEY 1H

WILLOW LAND SURVEYING, PLLC
P.O. BOX 17, PENNSBORO, WV 26415
(304) 659-1717

JOB #: 23-025WA

DATE: 05/13/24

DRAWN BY: D.R.R.

FILE: COKELEY1HSAOR.DWG

SCALE : 1-INCH = 2000-FEET

0' 2000' 4000' 6000'

05/24/2024

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085104430000	AR PINWOOD	5V	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP				
47085077500000	UNDERWOOD RONNEL & GAIL	2	HARPER CROSBY HOLDINGS LLC	RARE EARTH ENERGY	3,035	1790 - 2921	Salt Sands, Big Injun, Fifty foot, Gordon	Weir, Benson, Alexander
47085103780000	EVERLY UNIT	1H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	14,453	6640 - 14330	Marcellus	
47085103770000	HAYHURST UNIT	2H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	16,519	6512 - 16398	Marcellus	
47085103760000	HAYHURST UNIT	1H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	15,544	6693 - 15373	Marcellus	
47085911530000								
47085079620000	NICHOLS MICHAEL	3	HARPER CROSBY HOLDINGS LLC	RARE EARTH ENERGY	2,933	1917 - 2867	Keener, Big Injun, Weir, Thirty Foot	Gordon, Benson, Alexander
47085096010000	COOL JOHN	1	KEY OIL CO	KEY OIL CO	3,300			Weir, Gordon, Benson, Alexander
47085096250000	COOL JOHN	1	KEY OIL CO	KEY OIL CO	4,845	4673 - 4676	Benson	Weir, Gordon, Benson, Alexander
47085096860000	COOL JOHN	3	KEY OIL CO	KEY OIL CO	4,838	4701 - 4704	Benson	Weir, Gordon, Benson, Alexander
47085911130000								
47085911100000								
47085911100000								
47085080620000	T BUTCHER	2	ALLIANCE PETROLEUM CO LLC	PARDEE GAS	5,050	4906 - 4912	Benson	Weir, Gordon, Benson, Alexander
47073021200000	JOHN FREELAND	6	WV WELLS LTD	BIG KNOT OIL CO	2,022			Weir, Gordon, Benson, Alexander
47085079980000	SMITH JOHN A	4	PARDEE GAS	PARDEE GAS				
47073005920000	JOHN FREELAND	10	WV WELLS LTD	HANLON OIL & GAS CO	2,072	1821 - 1830		
47073005700000	JOHN FREELAND	9	WV WELLS LTD	HANLON OIL & GAS CO	1,975			
47073005690000								
47073021320000	ELROY WAGNER	3	WV WELLS LTD	BIG KNOT OIL CO	1,875			Weir, Gordon, Benson, Alexander
47073021360000	ELROY WAGNER HRS	7	WV WELLS LTD	BIG KNOT OIL CO	1,873			Weir, Gordon, Benson, Alexander
47073021420000	JOHN FREELAND	1	ALEXANDER PRODUCTION CO	HANLON OIL & GAS CO				
47073021390000	M RYAN	1	WV WELLS LTD	BIG KNOT OIL CO				
47073920550000								
47073026240000	W J HIGGINS	1	S D COSS & C T SMITH	S D COSS & C T SMITH	1,975			Weir, Gordon, Benson Alexander

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LATITUDE 39°20'00"

8,665'

LATITUDE 39°22'30"

1,722' TO BOTTOM HOLE

Antero Resources Corporation Well No. Cokeley #1H

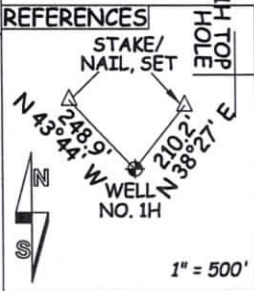
CLAY DISTRICT RITCHIE COUNTY	
6-7	Kenneth Mossor
6-7.1	Kenneth Mossor
6-8.1	Rodney Ritchey
6-18	Consolidated Timberlands LLC
11-32	Lorena Mossor Et Al
12-1	David McKinney
12-1.1	Michael Nichols
12-1.2	Adams County Hunt Club LLP
12-1.3	Johnny Cool
12-1.5	David McKinney
12-1.7	Vince Butta
12-2	Lawrence Cokeley
12-2.1	Samuel Haynes
12-2.2	Derek Haynes
12-6.1	Adams County Hunt Club LLP
12-6.2	Adams County Hunt Club LLP
12-6.3	Adams County Hunt Club LLP
12-13	Margo Kiehl Et Al
12-16	Michael Underwood Et Al
12-16.1	Michael Underwood Et Al
12-16.2	Michael Underwood Et Al
12-16.3	Michael Underwood Et Al
12-17	Erma Smith Et Al

NOTES:
WELL 1H TOP HOLE INFORMATION:
 N: 298,178ft E: 1,566,911ft
 LAT: 39°18'30.76" LON: 81°01'50.25"
BOTTOM HOLE INFORMATION:
 N: 314,348ft E: 1,562,346ft
 LAT: 39°21'09.79" LON: 81°02'51.85"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
 N: 4,351,026m E: 497,374m
BOTTOM HOLE INFORMATION:
 N: 4,355,929m E: 495,901m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
 N: 14,274,279ft E: 1,631,754ft
POINT OF ENTRY INFORMATION:
 N: 14,275,893ft E: 1,631,869ft
BOTTOM HOLE INFORMATION:
 N: 14,290,365ft E: 1,626,922ft

LESSOR	
A	THE HEFLIN MINERAL RIGHTS PARTNERSHIP
B	JOHN ROBERT BILLS
C	THE HEFLIN MINERAL RIGHTS PARTNERSHIP
D	IRA M. HAUGHT
E	DONNA MOSSOR
F	THEODORE BUTCHER
G	W.C. BUTCHER ET AL
H	HERITAGE RESOURCES
I	ELLA LOUISE LAFAVE
J	ROBERT W. WARD, JR.
L	RIDGETOP CAPITOL VI, LP.
M	RIDGETOP CAPITOL VI, LP.
N	RIDGETOP CAPITOL VI, LP.
O	RIDGETOP CAPITOL VI, LP.
P	RONNEL L. UNDERWOOD ET AL
Q	RONNEL L. UNDERWOOD ET AL
S	THE BIG CHIEF DRILLING AND PRODUCTION COMPANY, INC.
T	DAVID D. BUXTON
U	STEVEN ALKIRE
V	PAMELA L. NICHOLS
W	ADA WEEKLY ET AL



WV NORTH ZONE GRID NORTH

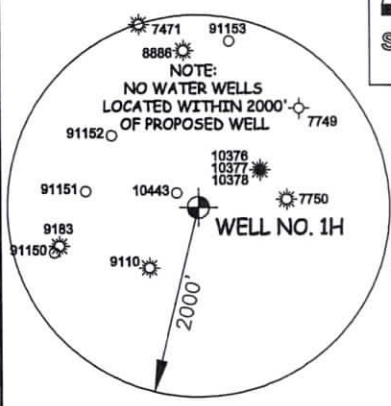
8,108' TO BOTTOM HOLE

9,029'

LONGITUDE 81°02'30"

LONGITUDE 81°00'00"

NOTE
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



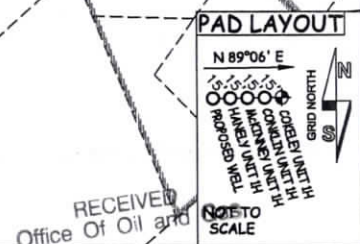
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 23-025WA
 DRAWING # COKELEY1HS
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND
 - - - Surface Owner Boundary Lines +/-
 - - - Adjoining Surface Tracts +/-
 ⊕ Found monument, as noted

Thomas Summers
 THOMAS SUMMERS P.S. 2109
 DATE 05/14/24
 OPERATOR'S WELL# COKELEY UNIT #1H

LAFAYETTE DISTRICT PLEASANTS COUNTY	
10-1	Pamela Palmer Et Al
10-3	Pamela Palmer Et Al
10-26	Mark Hadley
10-26.1	Mark Hadley
10-27	John Bills
10-28	David Meeks
10-29	Frank Horner Jr.
10-35	Donna Mossor
10-36	Donna Mossor
10-37	Donna Mossor
10-38	Paul Riggs
10-38.1	John Bills
10-40	Mark Hadley
10-41	Donna Mossor
10-42	Donna Mossor



WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - MAY 05 2024 10511
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,068' - AS BUILT WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE ELLENBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER MICHAEL UNDERWOOD ET AL ACREAGE 50 ACRES +/-
 OIL & GAS ROYALTY OWNER RONNEL L. UNDERWOOD ET AL LEASE ACREAGE 266.83 ACRES

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER REDRILL ___ FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL
 (SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,700' TVD 24,700' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS
 ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD
 DENVER, CO 80202 BRIDGEPORT, WV 26330

FORM WW-6

COUNTY NAME PERMIT

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Q: Ronnel L. Underwood Et Al Lease Ronnel L. Underwood Et Al Walter C. Alkire The Walter C. Alkire, Jr. Family Trust	Walter C. Alkire The Walter C. Alkire, Jr. Family Trust Antero Resources Corporation	1/8 Agreement Assignment	0233/0273 0313/0400 0271/0834
P: Ronnel L. Underwood Et Al Lease Ronnel L. Underwood Et Al Walter C. Alkire The Walter C. Alkire, Jr. Family Trust	Walter C. Alkire The Walter C. Alkire, Jr. Family Trust Antero Resources Corporation	1/8 Agreement Assignment	0199/0020 0313/0400 0271/0834
Q: Ridgetop Capitol VI, LP. Lease Ridgetop Capitol VI, LP.	Antero Resources Corporation	1/8+	0336/0893
M: Ridgetop Capitol VI, LP. Lease Ridgetop Capitol VI, LP.	Antero Resources Corporation	1/8+	0336/0887
N: Ridgetop Capitol VI, LP. Lease Ridgetop Capitol VI, LP.	Antero Resources Corporation	1/8+	0336/0890
L: Ridgetop Capitol VI, LP. Lease Ridgetop Capitol VI, LP.	Antero Resources Corporation	1/8+	0336/0884
J: Robert W. Ward, Jr. Lease Robert W. Ward, Jr.	Antero Resources Corporation	1/8+	0341/0374
I: Ella Louise LaFave Lease Ella Louise LaFave	Antero Resources Corporation	1/8+	0335/0485
H: Heritage Resources Lease Heritage Resources	Antero Resources Corporation	1/8+	0340/0664
G: W.C. Butcher Et Al Lease W.C. Butcher Et Al J.H. Wagner William Earle Snyder Eva J. Israel J.D. Israel, Et Al Kenneth E. Mossor and Lorena D. Mossor Pardee Gas Company Pardee Exploration Company Pardee Resource Group Pardee Minerals, LLC	J.H. Wagner William Earle Snyder Eva J. Israel J.D. Israel, Et Al Kenneth E. Mossor and Lorena D. Mossor Pardee Gas Company Pardee Exploration Company Pardee Resource Group Pardee Minerals, LLC Antero Resources Corporation	1/8 Assignment Will Will Assignment Assignment Merge Merge Assignment Assignment	0056/0384 0091/0103 0045/0721 0045/0751 0189/0121 0267/0587 0217/0610 0005/0830 0006/0726 0028/0001
H: Heritage Resources Lease Heritage Resources	Antero Resources Corporation	1/8+	0340/0664
F: Theodore Butcher Lease Theodore Butcher	Antero Resources Corporation	1/8+	0344/0135
E: Donna Mossor Lease Donna Mossor	Antero Resources Corporation	1/8+	0359/0540

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 Chapter 22, Article 6A, Section 5(a)(5)
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>C: The Heflin Mineral Rights Partnership Lease</u> The Heflin Mineral Rights Partnership	Antero Resources Corporation	1/8+	0356/0412
<u>D: Ira M. Haught Lease</u> Ira M. Haught	Antero Resources Corporation	1/8+	0338/0586

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

*Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

**Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract.

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 Office Of Oil and Gas
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 WV Department of
 Environmental Protection

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
A: <u>The Heflin Mineral Rights Partnership Lease</u>				
	The Heflin Mineral Rights Partnership	Antero Resources Corporation	1/8+	0356/0412

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**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation
 By: Tim Rady
 Its: Senior Vice President of Land